

Infinite Geometric Series

- sum of terms of a geometric sequence.

$$S_n = a + (ar) + (ar^2) + \dots + (ar^{n-1}) + \dots \qquad S_n = \frac{a(r^n - 1)}{r - 1}$$

- If $-1 < r < 1$, then r^n becomes very small (approaching to **ZERO** as **n** increasing)

Example: If $r = \frac{1}{2}$, then $r^{10} = \frac{1}{1024}$ and $r^{20} = \frac{1}{1048576}$ $r^\infty = 0$

$$S_\infty = \frac{a(0 - 1)}{r - 1} = \frac{-a}{r - 1} = \frac{a}{1 - r}$$

$$S_\infty = \frac{a}{1 - r}, \text{ where } -1 < r < 1$$



Infinite Series Examples Solutions

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Infinite Series Examples Solutions:

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Infinite Series Examples Solutions**

In a global inundated with displays and the cacophony of instant interaction, the profound energy and emotional resonance of verbal artistry frequently fade into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, located within the lyrical pages of **Infinite Series Examples Solutions**, a captivating perform of fictional splendor that pulses with natural emotions, lies an memorable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus guides readers on a psychological odyssey, delicately exposing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is central styles, dissect their charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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